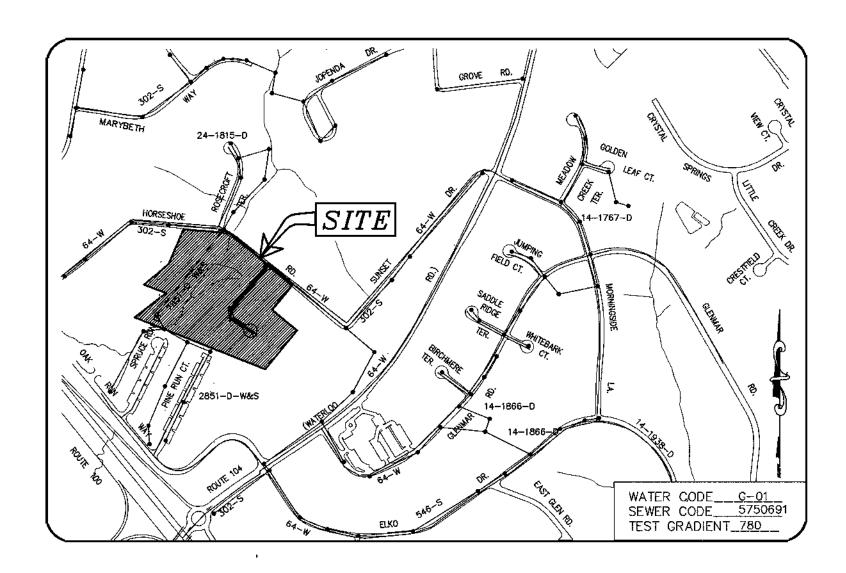
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIE	
STANDARD MH (HO. CO. STD.G-5.01)	4	4	4'	ATLANTIC	
8" SEWER MAIN	588 L.F.	589	PVL	JM MANUFACTURER	
4" SEWER HOUSE CONNECTION	400 L.F.				
# SEWER HOUSE CONNECTIONS	21 EACH	21	PVC	JM MANUFALTURER	
8" WATER MAIN	368 L.F.	368	DIP	GRIFFEN PIPE	
6" WATER MAIN	205 L.F.	209	DIP	il it	
4" WATER MAIN	379 L.F.	376	DIP	y n	
1" WATER HOUSE CONNECTION	430 L.F.	430	K CAPPER	READING TUBE	
# 1" WHC	20 EACH	21	K COPPER	READING TUBE	
1.5" WATER HOUSE CONNECTION	30 L.F.				
# 1.5" WHC-	1 EACH				
8"x 4" T.S.& V.	1 EACH	1	RS <u>L</u> V	MUELLER	
8"x 8" T.S & V.	1 EACH	1	RS6V	MUELLER	
4" CAP & BUTTRESS	1 EACH	1		U.S. PIPE & FOUNDRY	
6" CAP & BUTTRESS	1 EACH	1		11 11	
1/8 H.B. (6")	2 EACH	2		// //	
1/16 H.B. (4")	1 EACH	1		II II	
1/32 H.B. (4")	1 EACH	1		// // · // .	
8"×6" T.& V.	1 EACH	/		<i>#</i>	
8"x6" R	1 EACH	/	SEB	ıl II	
F.H.	1 EACH	/	5' b"	MUELLER	



VICINITY MAP SCALE 1"=600'

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER F-02-64

TYPE OF BUILDING\_ No. OF UNITS\_ No. OF WATER HOUSE CONNECTION No. OF SEWER HOUSE CONNECTIONS\_ DRAINAGE AREA LITTLE PATUXENT
TREATMENT PLANT LITTLE PATUXENT WATER RECLAMATION PLANT

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. R. JAGB HIKMAT, AUTHORZED MEMBER
DEVELOPER'S NAME
MUKKUS LLL HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT 2118/02 MEETS TECHNICAL REQUIREMENTS. USDA-NATURAL RESOURCES CONSERVATION SERVICE Y THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL

DEPARTMENT OF PUBLIC WORKS

CONTRACT NO.: 24-4013-D RED HILL BRANCH OVERLOOK AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.

ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA. 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: STATE HIGHWAY ADMINISTRATION (410) 531–5533 BG & E CO. CONTRACTOR SERVICES (410) 850-4620 BG & E CO. UNDERGROUND DAMAGE CONTROL (410) 787-9068 1-800-257-7777 MISS UTILITY

COLONIAL PIPELINE CO. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

(410) 313-4900 BUREAU OF UTILITIES 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED OUTSIDE THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

(410) 795-1390

- 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/ JACKING OPERATION IN COUNTY ROASS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPRROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF HOWARD COUNTY CODE.
- 12. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 13. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE
- 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 16. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL
- FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS. 17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE
- NOTED ON PLANS OR IN SPECIFICATIONS.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 20. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 21. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE
- DRAWINGS. 22. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- 23. STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- 24. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PROIR TO COMMENCING CONSTRUCTION.
- 25. SEDIMENT CONTROL TO BE PROVIDED BY F-XX-XXX.
- 26. ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.
- 27. ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.
- 28. ALL HOUSES WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.
- 29. COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER & SEWER PROFILES

<u>OWNER</u>

MORRIS L.L.C. C/O MILDENBERG BOENDER AND ASSOC., INC. 5072 DORSEY HALL DRIVE SUITE 202 ELLICOTT CITY, MARYLAND 21043 (401)997-0296

MORRIS PROPERTY)

RED HILL BRANCH OVERLOOK CONTRACT NO.: 24-4013-D

1 of 3

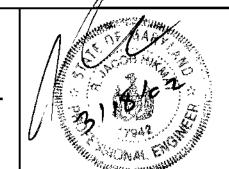
AS SHOWN

HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

PLAN REFERENCE NUMBERS:

SP-01-02 F-02-64

DEPARTMENT OF PLANNING & ZONING MILDENBERG, BOENDER & ASSOC., INC.

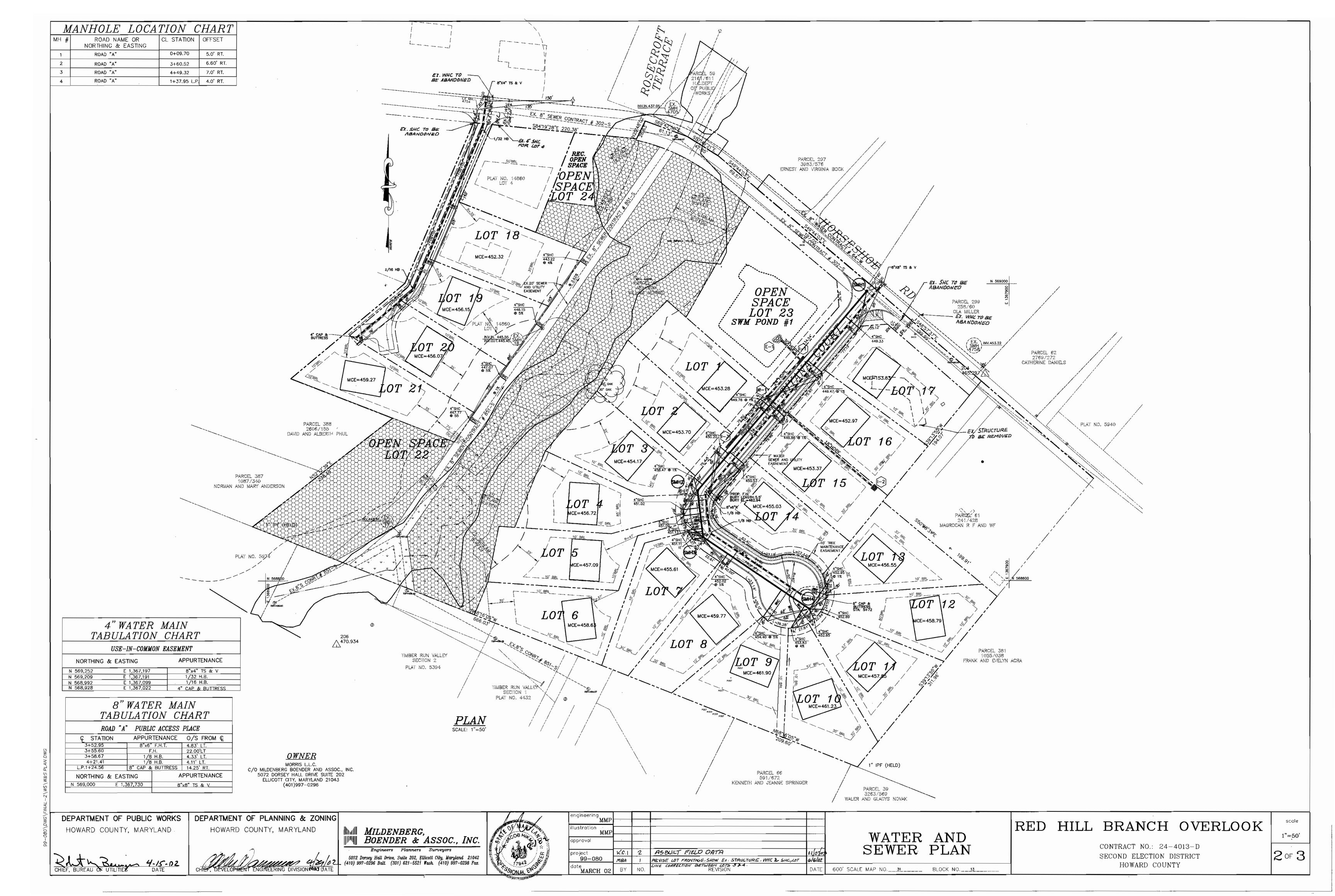


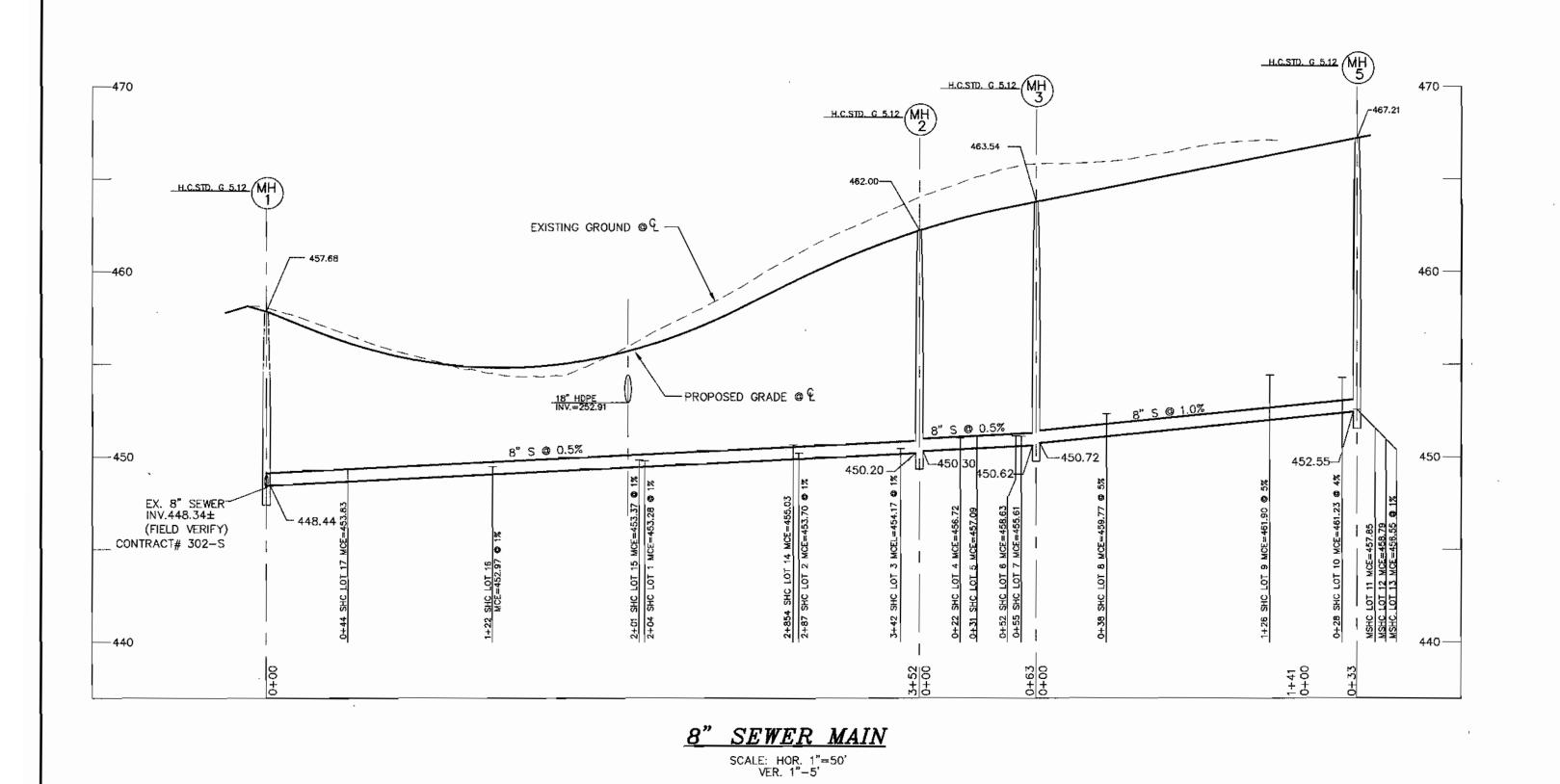
ASBUILT FIELD DATA REVISION MARCH 02

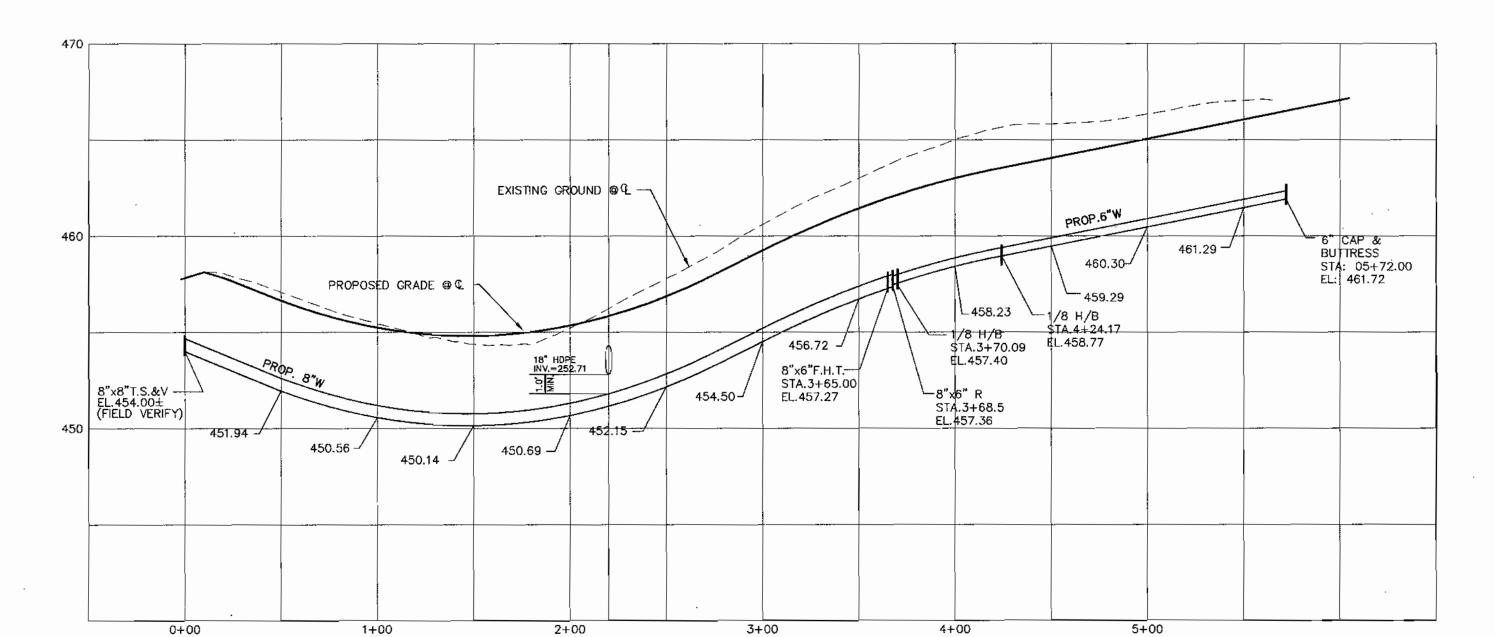
600' SCALE MAP NO.\_\_\_\_31\_\_\_\_ BLOCK NO.\_\_\_13\_

TITLE SHEET

SECOND ELECTION DISTRICT HOWARD COUNTY

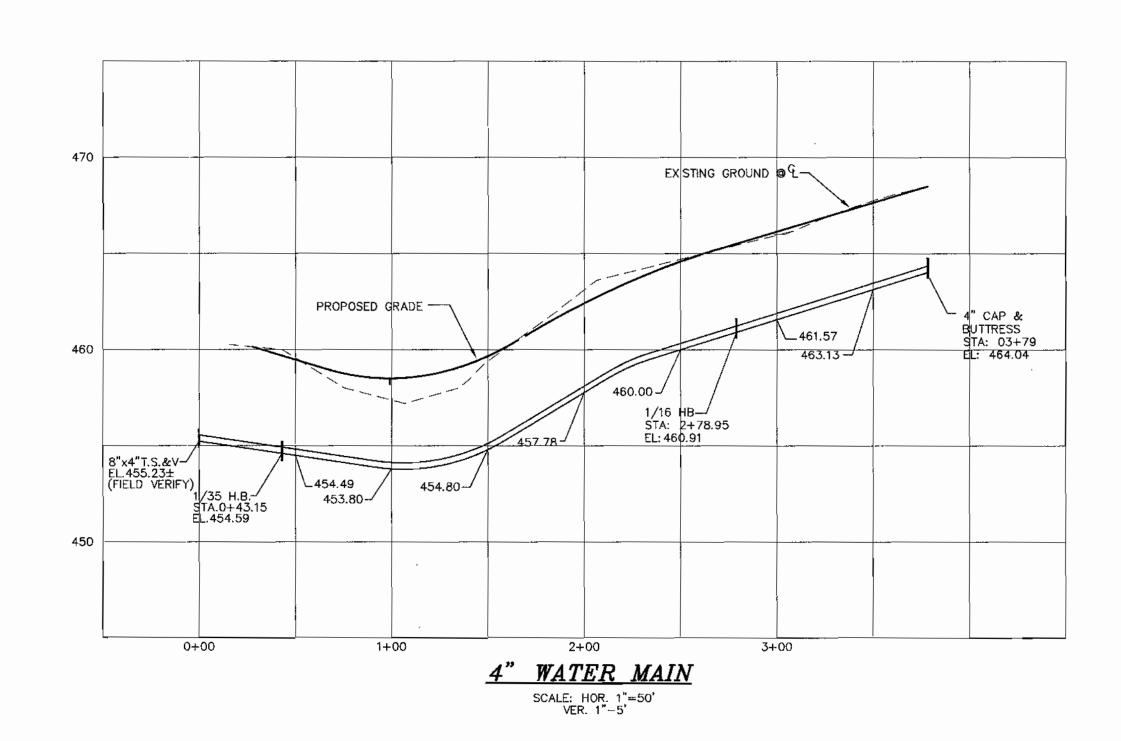






8" WATER MAIN SCALE: HOR, 1"=50' VER, 1"-5'

<u>OWNER</u> MORRIS L.L.C.
C/O MILDENBERG BOENDER AND ASSOC., INC.
5072 DORSEY HALL DRIVE SUITE 202
ELLICOTT CITY, MARYLAND 21043
(401)997-0296



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

MILDENBERG,
BOENDER & ASSOC., INC.

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5	approval			<u> </u>	
3	project <b>99-080</b>	<b>₹.c.</b> 1	1	ASBUILT FIELD DATA	
THE BOONAL ENGINE	date MARCH 02	ВҮ	NO.	REVISION	
with things.					

WATER AND SEWER PROFILE

600' SCALE MAP NO. 31 BLOCK NO. 13

RED HILL BRANCH OVERLOOK

CONTRACT NO.: 24-4013-D SECOND ELECTION DISTRICT HOWARD COUNTY

1"=50' 3 of 3